

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NHS-0002-00(754)	66	146

REVISED AND REDRAWN: 1-07-05

DETAILS & CLEARANCE DIAGRAM FOR OVERHEAD SIGNS

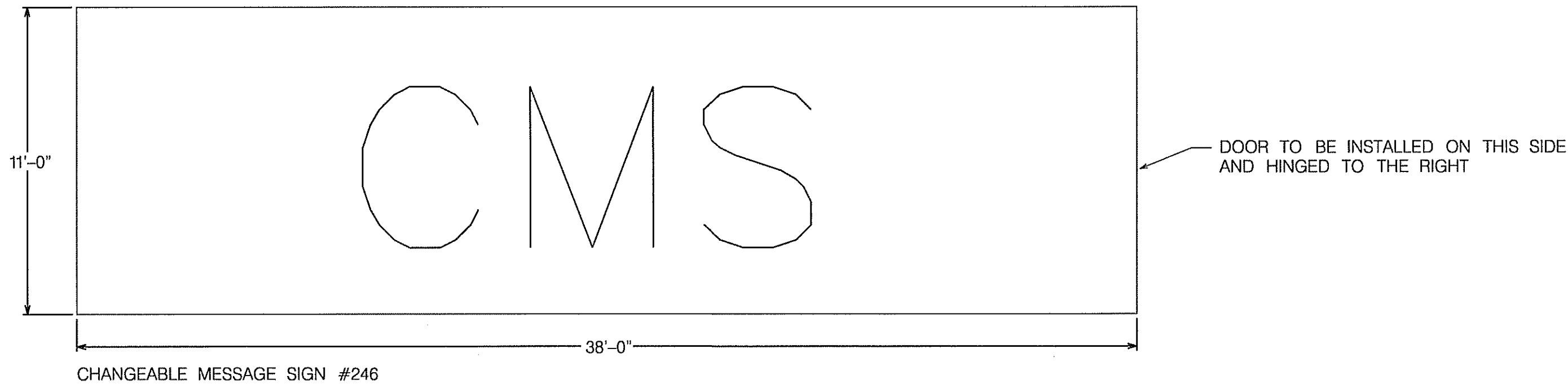
STRUCTURAL SUPPORT #NAV H53-79

STA. 300+50 , I-285 NB

- NO SCALE -

THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE CMS SYSTEM INSTALLATION IN ACCORDANCE WITH SECTION 631 FOR A CMS WITH THE FOLLOWING CONFIGURATION AND PARAMETERS:

- 3-LINE BY 21 LINE CHARACTER LINE MATRIX DISPLAY
- 12-INCH BORDERS AROUND ALL FOUR SIDES OF DISPLAY
- WALKIN DISPLAY HOUSING
- COMMUNICATION INTERFACE: GIGABIT ETHERNET FIELD SWITCH

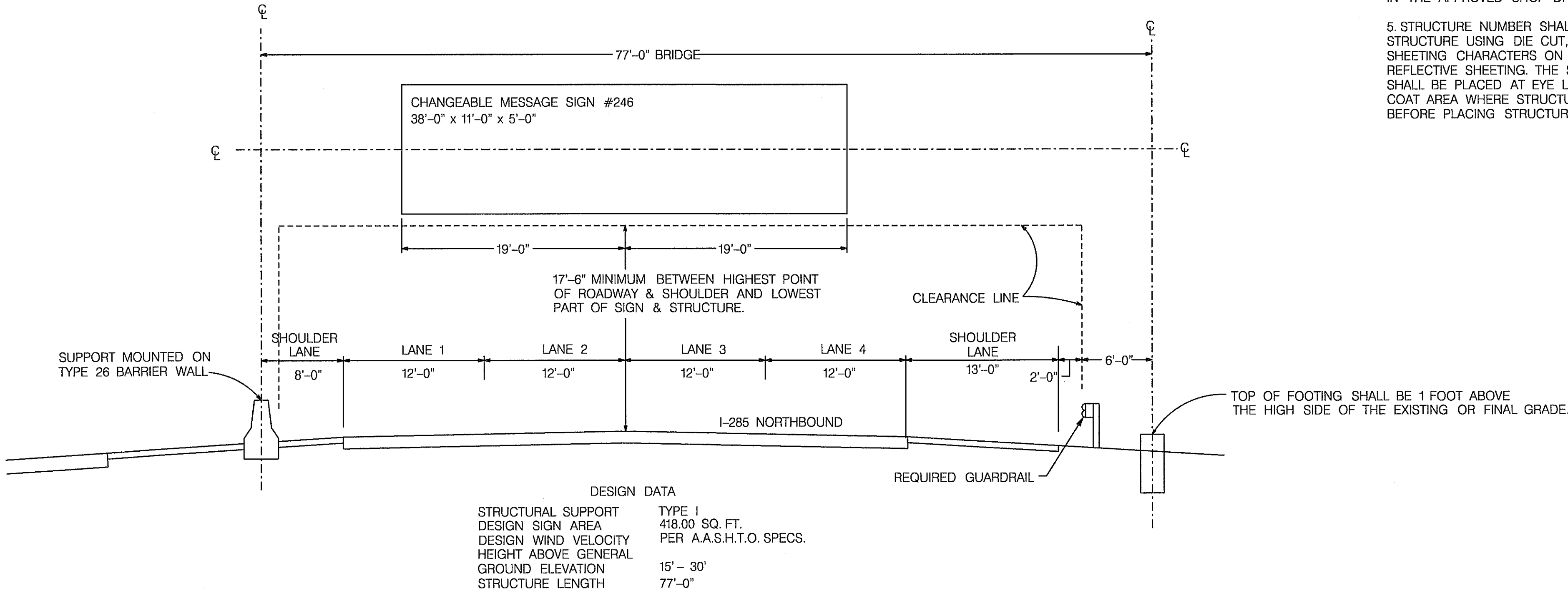


NOTE:
MAINTENANCE WALKWAY SHALL BE CONTINUOUS TO ALL SIGNS AND SHALL EXTEND A MINIMUM OF 1'-0" OUTSIDE THE EDGE OF ALL SIGNS, BUT NO LESS THAN 2'-0" OVER THE OUTSIDE SHOULDER. AN ADDITIONAL WALKWAY SHALL BE CONSTRUCTED AT THE RIGHT EDGE OF THE SIGN THAT IS PERPENDICULAR TO THE MAINTENANCE WALKWAY AND SHALL EXTEND THE FULL DEPTH OF THE SIGN. SEE SECTION 638 OF THE SPECIFICATIONS.

GENERAL NOTES
PERMANENT CHANGEABLE MESSAGE SIGN SYSTEM:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CMS EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING SECTION 631 (PERMANENT CHANGEABLE MESSAGE SIGN SYSTEM), THE PLANS AND GEORGIA SPECIFICATIONS.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL A CABINET AS SHOWN ON THE PLANS AND AS SPECIFIED IN SECTION 631, AT ALL CMS LOCATIONS IN THIS PROJECT. THE CONTRACTOR MAY PROPOSE A DIFFERENT CABINET HOUSING AND/OR MOUNTING LOCATION IN WRITING TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE OR WITHIN 7 CALENDAR DAYS OF THE NOTICE-TO-PROCEED, WHICHEVER IS SOONER.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW GROUND ROD AND CONDUCTOR ASSEMBLIES FOR THE CMS STRUCTURE/DISPLAY HOUSING AND FOR THE CMS CONTROLLER CABINET. GROUND RODS SHALL BE MINIMUM 10 FEET IN LENGTH. RESISTANCE TO GROUND FROM THE GROUND CONDUCTOR CLAMP SHALL BE MEASURED WITH A THREE-POINT EARTH GROUND TEST MEGGER IN THE PRESENCE OF THE ENGINEER. MAXIMUM RESISTANCE TO GROUND AS TESTED SHALL BE 10 OHMS.

THE GROUNDING REQUIREMENTS SHOWN HERE ARE A MINIMUM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING CMS SYSTEM GROUNDING IN ACCORDANCE WITH THE CMS MANUFACTURERS RECOMMENDATIONS. AS PART OF THE SUBMITTAL DATA REQUIREMENTS OF SECTION 631.1.03, THE CONTRACTOR SHALL FULLY SPECIFY THE CMS SYSTEM GROUNDING ASSEMBLY RECOMMENDED BY THE CMS MANUFACTURER OR SHALL SPECIFY IN WRITING THAT THE MINIMUM REQUIREMENTS SHOWN HERE ARE WITHIN THE RECOMMENDATIONS OF THE CMS MANUFACTURER.
4. ALL WIRING AND CABLING SHALL BE FULLY INTERNAL TO THE CMS SUPPORT STRUCTURE OR UNDERGROUND CONDUIT AT ALL TIMES. NO EXTERNAL CONDUIT ON THE SUPPORT STRUCTURE IS PERMITTED. ALL CABLE ENTRANCES BETWEEN THE CMS SUPPORT STRUCTURE AND THE CMS DISPLAY HOUSING SHALL BE BY GALVANIZED RIGID STEEL CONDUIT, UV-STABILIZED METALLIC LIQUID TIGHT FLEXIBLE CONDUIT, OR AN LB OR SIMILAR CONDUIT BODY ALWAYS INSTALLED INTO THREADED COLLARS IN THE SUPPORT STRUCTURE. THE THREADED COLLARS SHALL BE DESIGNED AND FABRICATED AT THE POINT OF MANUFACTURE BY THE SUPPORT STRUCTURE MANUFACTURER. STREET ELBOWS AND SWEEPS ARE NOT PERMITTED. FIELD DRILLING OF THE CMS SUPPORT STRUCTURE IS NOT PERMITTED UNLESS SPECIFIED IN THE APPROVED SHOP DRAWINGS.
5. STRUCTURE NUMBER SHALL BE PLACED ON OUTSIDE SHOULDER VERTICAL SUPPORT OF STRUCTURE USING DIE CUT, 6 INCH SERIES "D," WHITE, TYPE I (ENCLOSED LENS) REFLECTIVE SHEETING. CHARACTERS ON STANDARD INTERSTATE GREEN, TYPE I (ENCLOSED LENS) REFLECTIVE SHEETING. THE STRUCTURE NUMBER, WHICH SHALL READ FROM TOP TO BOTTOM, SHALL BE PLACED AT EYE LEVEL AND POSITIONED SO THAT IT IS VISIBLE TO ONCOMING TRAFFIC. COAT AREA WHERE STRUCTURE NUMBER IS TO BE PLACED WITH PRIMER AND ALLOW TO DRY BEFORE PLACING STRUCTURE NUMBER.



NAME	DATE	NAME	DATE
DESIGNED BY		FIRST DRAWN	
CHECKED BY		FIRST DRAWN	
SUPERVISED BY			

GEORGIA DEPARTMENT
OF TRANSPORTATION

SUBMITTED BY: DATE:

ATMS DESIGN
I-285 FROM I-75 SOUTH INTERCHANGE EAST TO I-20
CMS CLEARANCE DIAGRAM

ACCOUNT NO.

DRAWING NO.